**8.5 Creating Circle Graphs**

**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lesson Focus: Mathletes will be able to construct circle graphs**

**Explore the Math:**

HOW DO YOU CONSTRUCT CIRCLE GRAPHS?

You will need a protractor for this gang!

**Exploration #1**

1. **Construct a circle**
2. **Draw a diameter**
3. **How many degrees are in the bottom half of the circle?**
4. **How many degrees are in the top half of the circle?**

**Discussion Questions:**

1. **How many degrees are in a circle?**
2. **If one circle represents 100% of something, how many degrees are there in 25%?**
3. **How many degrees are there in 10%?**

**Exploration #2**

1. **Survey the class to determine how many siblings each student has**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Number of Siblings** | **Tally** |  |  |  |
| 0 |  |  |  |  |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| More than 5 |  |  |  |  |
| **TOTAL** |  |  |  |  |

1. **Draw a circle to represent the whole class**
2. **Think of some ways we can figure out how big to make the sectors of the circle….**

**Record some of your ideas…**

1. **Let’s share our ideas and see how we want to make this chart**

**WORKING TOGETHER**

**Let’s do another survey and make a circle graph to represent our data!**

**What should we try to find out about each other?**

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| **TOTAL** |  |  |  |  |

**Record the steps you took:**

**Step 1 –**

**Step 2-**

**Step 3 –**

**Step 4-**

**Step 5-**

**Step 6-**

**TRY:**

**What else can we survey? Create a circle graph☺**

**Q:**

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